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CHICAGO SECTION OF THE AMERICAN  
MATHEMATICAL SOCIETY.

THE eighth regular meeting of this Section was held at the University of Chicago on Thursday and Friday, December 27 and 28, 1900. The Section was organized in April, 1897, under a by-law of the Society which provides for conducting in any locality periodic meetings for the reading and discussion of mathematical papers, and since then has met twice a year, in April and December. During this period a total of 128 papers, by fifty-two different persons, have been read before the Section.

The election of officers, which occurs regularly at the Christmas meeting, resulted in the re-appointment of the Secretary, Professor Thomas F. Holgate, and the choice of Professor E. J. Townsend and Professor James B. Shaw for members of the Program Committee.

The following papers were read :

1. PROFESSOR E. H. MOORE : 'On the uniformity of continuity.'
2. PROFESSOR ARTHUR S. HATHAWAY : 'Quaternions and four-fold space.'
3. PROFESSOR IRVING STRINGHAM : 'On the geometry of planes in a parabolic space of four dimensions.'
4. DR. F. H. SAFFORD : 'Flow of heat in two dimensions.'
5. MR. A. C. LUNN : 'Certain mathematical aspects of experimental science.'
6. MR. E. A. HOOK : 'Some properties of circulating decimals.'
7. PROFESSOR ARNOLD EMCH : 'Note on the congruences of twisted curves.'
8. PROFESSOR H. B. NEWSON : 'A generalization of the Wessel-Gauss-Argand diagram.'
9. DR. F. R. MOULTON : 'On straight line solutions of the problem of  $n$  bodies.'
10. DR. GILBERT A. BLISS : 'Geodesic lines on an anchor ring.'
11. MR. FRANZ A. LA MOTTE : 'On the determination of the algebraic equations invariant under Tschirnhausen transformations, with the parameter representation of all such irreducible equations, with rational coefficients, of the third and fourth degrees.'
12. PROFESSOR E. J. TOWNSEND : 'Functions of two real variables which are continuous with respect to each variable.'

13. PROFESSOR L. E. DICKSON : 'The group of the equation for the twenty-seven lines on a general cubic surface.'

14. PROFESSOR OSKAR BOLZA : 'Concerning the expression of Abelian integrals in terms of a fundamental set of integral functions.'

15. DR. J. C. FIELDS : 'Proof of the Riemann-Roch theorem and of the independence of the conditions for adjointness.'

16. PROFESSOR OSCAR SCHMIEDEL : 'Two reduction formulas applicable to certain particular integrals.'

17. PROFESSOR E. B. SKINNER : Some forms which remain invariant with respect to certain ternary monomial substitution groups.'

18. PROFESSOR JAMES B. SHAW : Note indicating a new development of a determinant.'

19. PROFESSOR E. H. MOORE : 'On double limits.'

20. PROFESSOR E. H. MOORE : 'Concerning the fundamental propositions of the theory of proper definite integrals.'

21. MISS IDA M. SCHOTTENFELS : 'Proof of the existence of a particular substitution group of degree 21 and order 20160.'

In addition to the above Professor Hathaway presented a paper introducing a general discussion on the subject 'Pure Mathematics for Engineering Students.'

THOMAS F. HOLGATE,  
*Secretary of the Section.*

EVANSTON, ILLINOIS.

WISCONSIN ACADEMY OF SCIENCES, ARTS,  
AND LETTERS.

THE thirty-first annual meeting of the Academy took place at Milwaukee, December 27 and 28, 1900. The following papers were read and discussed :

'An example of a theoretical system of weight-factors, of ready application in the solution of observation equations,' by Albert S. Flint.

'Harmonic curves of three frequencies.' (Second paper.) With exhibition of stereograms drawn by E. A. Hook, by Charles S. Slichter.

'On repeating decimals,' by E. A. Hook.

'On an improved method of determining latent heat of vaporization,' by Louis Kahlenberg.

'A campaign cry of 1844,' by H. J. Desmond.

'Early political platforms in Wisconsin,' by John G. Gregory.

'Personal names, their etymology,' by James D. Butler.